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Adding a Shapefile

This tutorial walks through the steps of publishing a Shapefile with GeoServer.

Note: This tutorial assumes that GeoServer is running on http://localhost:8090/geoserver/web (http://localhost:8090/geoserver/web).

Getting Started

- 1. Download the file myc_roads.zip (../../_downloads/nyc_roads.zip). This file contains a shapefile of roads from New York City that will be used during in this tutorial.
- 2. Unzip the nyc_roads.zip. The extracted folder consists of the following four files:

```
nyc_roads.shp
nyc_roads.shx
nyc_roads.dbf
nyc_roads.prj
```

3. Move the nyc_roads folder into <geoserver data dir>/data where

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GEOSERVER_DATA_DIR is the root of the GeoServer data directory. If no changes were were made to the GeoServer file structure, the path should be geoserver/data dir/data/nyc roads.

Create a New Workspace

The first step is to create a *workspace* for the Shapefile. The workspace is a container used to group similar layers together.

- 1. In a web browser navigate to http://localhost:8080/geoserver/web).
- 2. Log into GeoServer as described in the <u>Logging In (../web-admin-quickstart/index.html#logging-in)</u> quick start.
- 3. Navigate to Data Workspaces.

Workspaces page

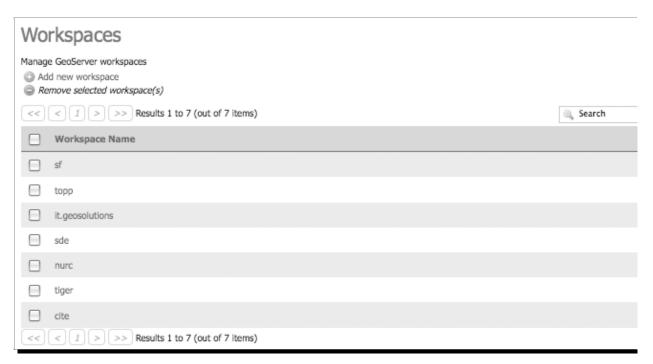
4. To create a new workspace click, select the *Add new workspace* button. You will be prompted to enter a workspace *Name* and *Namespace URI*.

Configure a New Worksapce

5. Enter the name nyc_roads and the URI http://opengeo.org/nyc_roads A workspace name is a name describing your project and cannot exceed ten characters or contain a space. A Namespace URI (Uniform Resource Identifier), is typically a URL associated with your project, with perhaps a different trailing identifier.

NYC Roads Workspace

6. Click the Submit button. GeoServer will append the nyc_roads workspace to the bottom of

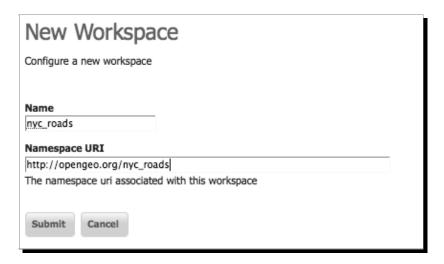


Name

Namespace URI

The namespace uri associated with this workspace

the Workspace View list.



Create a Store

- 1. Navigate to Data Stores.
- 2. In order to add the nyc_roads data, we need to create a new Store. Click on the *Add new store* button. You will be redirected to a list of data types GeoServer supports.

Data Sources

- 3. Because nyc_roads is a shapefile, select Shapefile: ESRI(tm) Shapefiles (.shp).
- 4. On the *New Vector Data Source* page begin by configuring the *Basic Store Info*. Select the workspace nyc_roads from the drop down menu, type NYC Roads for the name and enter a brief description, such as Roads in New York City.
- 5. Under the *Connections Parameters* specify the location of the shapefile-file:data/nyc_roads/nyc_roads.shp.

Data Info and Parameters for nyc_roads

6. Press Save. You will be redirected to *New Layer chooser* page in order to configure nyc_roads layer.

New data source

Choose the type of data source you wish to configure

Vector Data Sources

- Directory of spatial files Takes a directory of spatial data files and exposes it as a data store
- PostGIS NG PostGIS Database
- PostGIS NG (JNDI) PostGIS Database (JNDI)
- Properties Allows access to Java Property files containing Feature information
- Shapefile ESRI(tm) Shapefiles (*.shp)
- Web Feature Server The WFSDataStore represents a connection to a Web Feature Server. This connection provides access to the published by the server, and the ability to perform transactions on the server (when supported / allowed).

Raster Data Sources

- # ArcGrid Arc Grid Coverage Format
- GeoTIFF Tagged Image File Format with Geographic information
- ⊞ Gtopo30 Gtopo30 Coverage Format
- ImageMosaic Image mosaicking plugin
- ⊞ WorldImage A raster file accompanied by a spatial data file



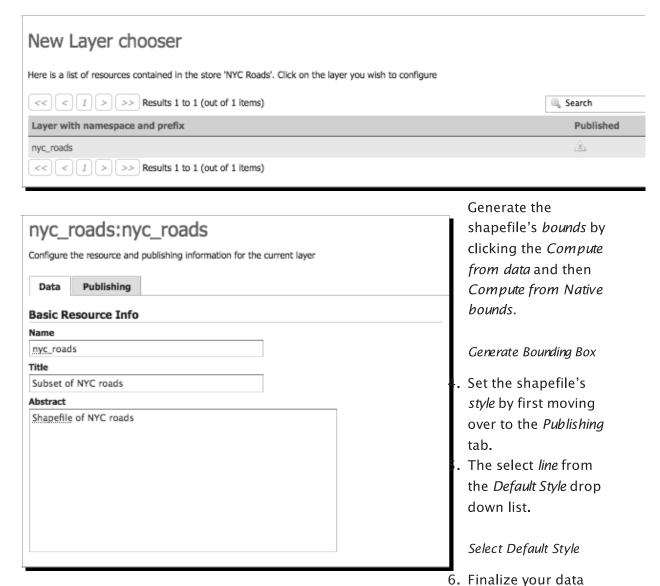
Layer Configuration

1. On the *New Layer chooser* page, select the Layer name nyc_roads.

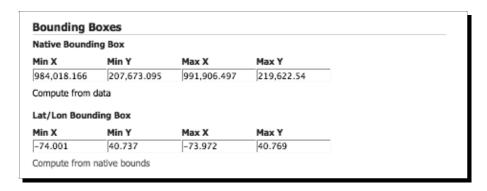
New Layer Chooser

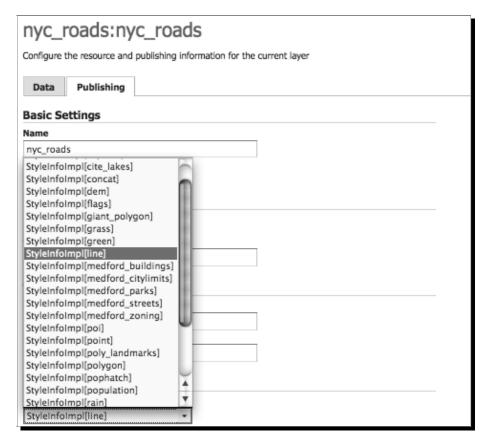
2. The following configuration define the data and publishing parameters for a layer. Enter a short *Title* and *Abstract* for the nyc_roads shapefile.

Basic Resource Information for Shapefile



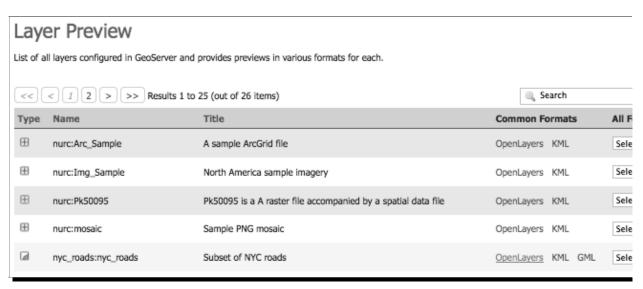
and publishing configuration by scrolling to the bottom and clicking *Save*.





Preview the Layer

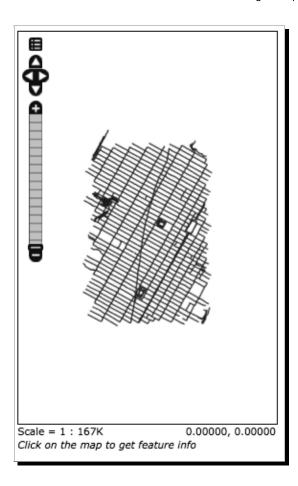
1. In order to verify that the nyc_roads is probably published we will preview the layer. Navigate to the *Map Preview* and search for the nyc_roads:nyc_roads link.



Layer Preview

- 2. Click on the OpenLayers link under the Common Formats column.
- 3. Success! An OpenLayers map should load with the default line style.

OpenLayers map of nyc_roads



Previous: Web Administration Interface Quickstart (../web-admin-quickstart/index.html)

Next: Adding a PostGIS Table (../postgis-quickstart/index.html)

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